Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Alg 1 Maintenance #8 due Monday Feb 9th

|  |  |  |  |
| --- | --- | --- | --- |
| Use the Pythagorean Theorem round to the nearest tenth | Solve for x | Write a rule for the table | One, many, none |
| a=7, b=?, c=15 | 2x+1 = -17 | |  |  | | --- | --- | | 1 | 7 | | 2 | 9 | | 3 | 11 | | 4 | 13 |   Y= | 3(x+1) =3x+3 |
| a= 3, b=4, c=? | -22 = 3x –(x+1) | |  |  | | --- | --- | | -1 | -4 | | -2 | -7 | | -3 | -10 | | -4 | -13 |   Y= | -4x -2 = -3x –x-1 |
| a= ?, b=10, c= 15 | 4x+1x = 3+ x | |  |  | | --- | --- | | -1 | -5 | | 0 | -4 | | 1 | -3 | | 2 | -2 |   Y= | 2x-7 = 2x -3-4 |
| a=? b=5, c= 10 | 3(x+3) = -(2x-3) +3 | |  |  | | --- | --- | | 0 | 2 | | 2 | -4 | | 4 | -10 | | 6 | -16 |   Y= | 3x –(x+1) =2x +1 |

17-18 (2points)

John walked sixteen meters north and fourteen meters west to get home from school. How far is it from his home to his school? ( SAW)

19-20 (2 points)

John got a ladder from his garage to climb to the roof of his house to get a Frisbee. His house is 20 feet high and he placed it 4 feet from the base of his house. The ladder was just long enough to reach the roof. How long was the ladder? (round to the nearest tenth if needed)